

101.5 Gases in Metals (rod form)

These SRMs are for determining hydrogen, oxygen, and nitrogen by vacuum fusion, inert gas fusion, and neutron activation methods.

[For further information see SP 260-14](#)

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and

Elemental Composition (mass fraction, in %)

SRM	Description	Oxygen (in mg/kg)	Hydrogen (in mg/kg)	Nitrogen (in mg/kg*)
1090	Ingot Iron	491		(60)
1091a	Stainless Steel (AISI 431)	132.2		(876)
1093	Valve Steel	60		
1094	Maraging Steel	4.5		(71)
*1095	Steel (AISI 4340)	9	(<5)	(37)
*1096	Steel (AISI 94B17)	10.7	(<5)	40.4
*1097	Cr-V Steel (mod.)	6.6	(<5)	(<41)
*1098	Steel (High Carbon)	10	(<5)	32
*1099	Electrolytic Iron	61	(<5)	(13)
1754	Low Alloy Steel (AISI 4320)	24		81
1755	Nitrogen in Low Alloy Steel			118.4

Values in parentheses are not certified and are given for information only.

*These SRMs are sold only as a set designated SRM 1089.